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INTRODUCTION

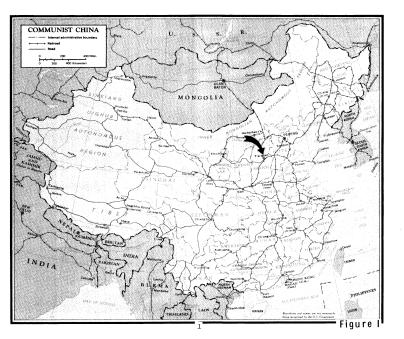
TAI-YUAN BALLISTICS AND SOLID PROPELLANTS TEST FACILITY, CHINA

The Tai-Yuan Ballistics and Solid Propellants Test Facility is located 8 nautical miles north of Tai-Yuan, China at 37-59N and 112-33E (Figure 1). The 145 acre facility is secured by a single board fence and is served by a road from the northeast corner of the Tai-Yuan Explosive Plant. It is divided into two areas each having its own entrance gate and security guard house. The eastern half is a ballistics test area including a small 150-foot range and two 700-foot and and ten support buildings. The western half is a solid propellants test area including a single position horizontal test stand, a two-position horizontal test stand, are assembly/checkout building, and 15 support buildings (Figures 2 and 3).

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This test facility has been covered by 15 photographic missions between the first mission in indicated that the facility was being constructed for ballistics test purposes only (Figure 2). Subsequent changes in plans necessitated relocation of the western security fence and construction of a new southern access road to accommodate the addition of a solid propellants test area. The 700-foot ballistics range, although essentially complete by the support area were surfaced. In the propellants test area the major bulldings were complete by However, the test stands were probably not operational until late in 1964 when the road and rail networks were completed.



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| | | |
| | 1959 | other. The old guard house and support building (Nos. 1 and 2) |
| 25X1 | The ballistics test area was under construction in (Figure 4). At that time the security fence was in place with a guard house (No. 1)* at the entrance gate. Eleven buildings (Nos. 1-11) were complete and the road | part of the propellants test area. These facts suggest that the plans called for a ballistics test facility and that it was not tion of this facility was well along that decision was made to pellants test area. It appears that the major emphasis was plarea since by over three years after the start of co |
| 25X1 25X1 | network was beginning to emerge. The 150-foot ballistics test range (Pigure 5) appeared nearly complete at that time. It consisted of grid lines at intervals, at least one firing pad, and a triangular impact revetment down range to the north. The range was served by only an unimproved trail or track from the area of the range support buildings (Nos. 1-6). The 700-foot ballistics ranges (Figure 6) consist of two firing pads, control | reveting of the test positions at the 700-foot ballistics range complete and the roads in this area were still unfinished. An object was at the center point of the grid at the 150-foot rang of the position at that point rather than the probatis unexplained at this time, but further evidence in |
| 25X1 25X1 | buildings (Nos. 9 and 10), "L" shaped protection revetments, fragment protection walls, observation bunker (No. 11), projectile Nos. 12 and 13), and a central access road. In these ranges were in mid stage of construction with most of the reveting, bunkering, and road network still to be completed. | provides a possible answer. |
| | 1960 | missions of fair quality between revealed the construction of an additional building (No. 3 pletion of the "L" shaped revetments at the 700-foot ranges and excavation for another building (No. 36) |
| 25X1 25X1 | The next photographic coverage was Although of poor quality, it revealed new construction for the solid propellant test facility, west of the ballistics ranges. Three new buildings (Ros. 14-16), including the assembly/checkout building (Figure 3, No. 15, Figures 9 and 11), were barely discernible. Their construction status could not be determined. | Good quality coverage in the new southern access road nearing completion and a guard hou the new entrance to the ballistics test area had been construct first time a circular scar about 30 feet in diameter is seen at the grid at the 150-foot range. A number of hypotheses may be explain this marking: The function of the range may have been ballistics test to a propellant burn area; the mark is evidence |
| | 1961 | charge test; the center point is a normal firing position and t presents a malfunction during a ballistics test. The latter the the least likely since the same mark appears again in Whatever the explanation may be, it is clear that the c |
| 25X1 | In | was in use as early asas previously noted. This coverage inalso shows the final compl |
| 25X1 25X1 | appearing structurally complete and the larger single position stand (Figure 3, No. 20, Figures 7 and 8) still under construction. By three more buildings (Nos. 24-26) had been constructed. | security fence between the two test areas with access limited the central service road. Within the propellants test area the pattern is emerging although access roads and parking aprons at buildings have not been constructed. The internal rail network lines interconnecting the test stands, support, and assembly/ch |
| | 1962 | This rail pattern suggests that the two position stand is suppor "A" of the assembly/checkout building and Building No. 14. The |
| 25X1 | Good quality photography in additional buildings (Nos. 27-30) as well as other important features. The roof structure of the single position stand was not yet in its final configuration and numerous drainage ditches and track activity indicated that construction was continuing. Although the assembly/checkout building appeared structurally complete, only three of the four lightning arresters were in place. Also evident was the removal of Building No. 8 and early indications of a new access road under construction on the south side of the facility. | stand is apparently supported by sections "C" and "D" and Build well as Building No. 18. Numerous drainage ditches are in evid mission and excavation continues for Building No. 36. Three mo arresters can be identified around the two position test stand checkout building. A pipeline extends from a point 100 feet ea. No. 18 to the assembly/checkout building. The line appears bro road intersections and may be incomplete. The explosives storage previously identified in pletion but its revetment is still under construction. The roo |
| 25X1 25X1 | The fence on the western side of the ballistics test area had been moved approximately 300 feet to the east from its original position as seen in A large gap in the fence permitted free movement from one area to the | the single position stand is in its final configuration, and it structurally complete. A paved apron around the stand extends of the firing end and has a dark central strip approximately 110 feet long eminating from the center of the firing bay. Thi |
| | * Annotation members identify buildings and facilities on Figures 2 thru 10 and in the table of dimensions. | clearly defined and quite regular and should not be construed a The two position stand is well defined for the first time on the |

he original t until construc-add a pro-aced on the new construction, the ses was still not unidentified ge on photography able firing pad 31), the com-i the start of revealed that
use (No. 3h) at
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t the center of
advanced to
changed from
e of a bursting
the scar reheory is probably
center position enter position letion of the to a gate on e general road t many of the k is visible with heckout buildings. orted by section e single position ding No. 14 as dence on this ore lightning and the assembly ast of Building (left) is nearing composition of structure of t can be considered 60 feet in front by is dark strip is as a blast mark. his mission. The

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| access roads, rail lines, control and observation buildings, and lightning arresters can be clearly seen. 1964 The next coverage of the facility was over a year later on this mission revealed that the ballistics test area had been completed with the addition of a new access road from the central service road to the observation bunker (No. 11). Construction of all roads and building aprons was complete. In the propellants test area, surfacing of all roads was complete. The explosives storage support building (No. 19) and the revetment were also complete. A new building (No. 35) had been constructed west of support Building No. 16 and the foundation has been laid for Building No. 36. Less than a month later Building No. 37 is visible on and the first structural members of Building No. 36 are evident. 1965 It is apparent from this photography that the propellants test area is very near completion. No new construction can be identified and only Building No. 36 remains unfinished. All rail lines are complete and many drainage ditches have been covered or filled in. The pipe line still appears to have breaks at road and rail intersections. However, these sections may be underground. Landscaping is evident in both the propellants and the ballistic test areas. Although no direct evidence of operational activity can be identified on this mission, the overall "finishes" appearance of the facility indicates that it is probably operational at this time and may have been since late in 1964. |

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25×1 25X1 Approved For Release 2005/06/24:CA-RDP02T06408R000200010001-7 CLA/PIR-61035 25X1 CIA IMAGERY ANALYSIS DIVISION TABLE OF DIMENSIONS 25X1 Figure Number Annotation Function Number Original guard house
Function undetermined
F 1 2 3 4 5 6 7 8 9 10 11 12 13 14 25X1 Instrumentation bunker 25X1 Assembly/checkout building (large stand support)
Assembly/checkout building (small stand support)
Assembly/checkout building (small and large stand support)
Assembly/checkout building (large stand support)
Assembly/checkout building (large stand support)
Function undetermined
Test stand (firing bay)
Test stand (firing bay)
Test stand
Test 15 a 9 and 11 **1**5 b 9 and 11 15 c 9 and 11 9 and 11 15 d 16 17 17 17 17 17 17 9 and 10 a b c d e f 7 and 8 a b c d e Function undetermined Guard house Guard house Function undetermined Test observation Test observation Function undetermined Function undetermined Function undetermined Administration Function undetermined Removed Guard house Removed Function undetermined 25X1 25X1 TOTALS 25X1 25X1 TOP SECRET 25X1 Approved For Release 2003/06/24 : CIA-RDP02T06408R000200010001-7

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BALLISTICS AND SOLID PROPELLANTS TEST FACILITY
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Figure 2

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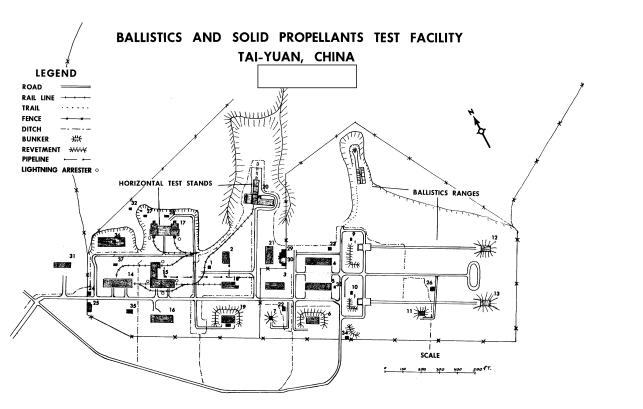
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Figure 3

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BALLISTICS TEST FACILITY TAI-YUAN, CHINA

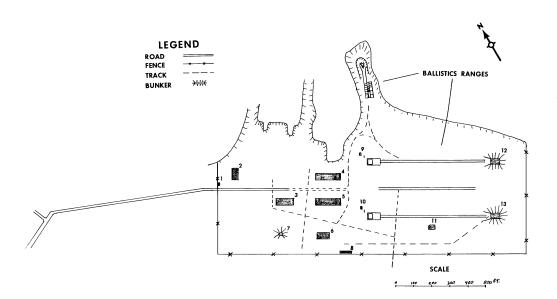


Figure 4

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150 FT BALLISTICS RANGE

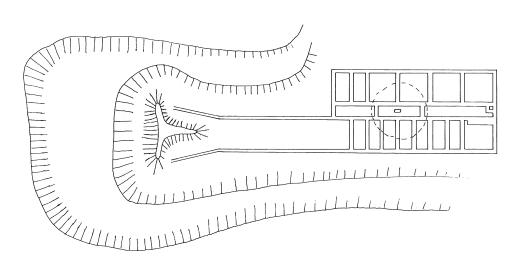


Figure 5

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700 FT BALLISTICS RANGE

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Figure 6

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HORIZONTAL TEST STAND (ONE POSITION)

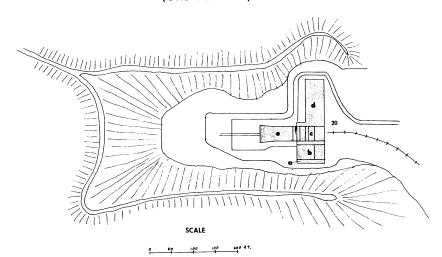


Figure 7

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HORIZONTAL PROPELLANTS TEST STAND (ONE POSITION)

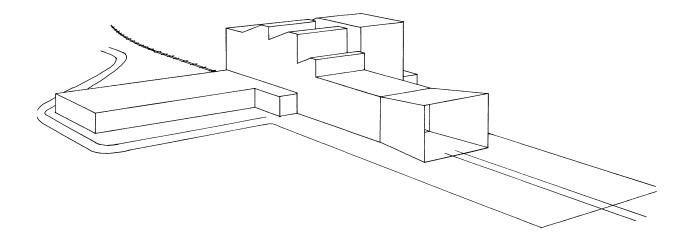


Figure 8

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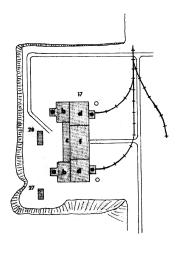
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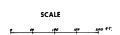
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HORIZONTAL TEST STAND (TWO POSITIONS)

ASSEMBLY/CHECKOUT BUILDING





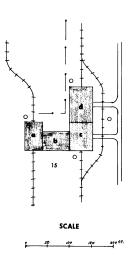


Figure 9

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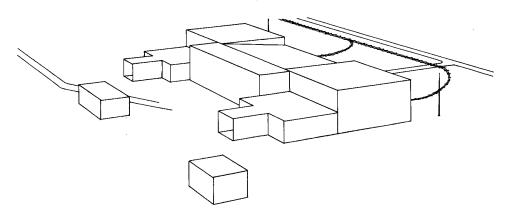
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HORIZONTAL PROPELLANTS TEST STAND (TWO POSITIONS)

Figure 10

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ASSEMBLY/CHECKOUT BUILDING

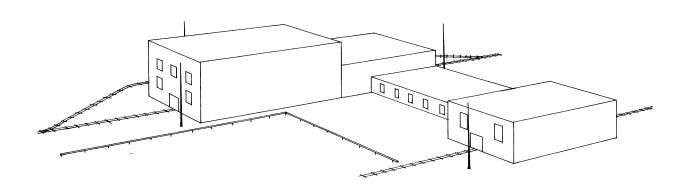


Figure II

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